

APPLICATION FOR RECLAMATION PERMIT RECEIVED



WASHINGTON STATE DEPARTMENT OF
Natural Resources

MAY 03 2010
Geology and Earth

APPLICATION FOR RECLAMATION PERMIT FORM SM-8A

Check appropriate box(es): ☐ new permit ☒ revision of existing permit ☐ transfer of permit ☒ expansion

NOTE: Do not attempt to complete this form until you have carefully read "Instructions for Form SM-8A".

1. NAME OF APPLICANT/PERMIT HOLDER(S) DELBERT FIELD					14. Type of proposed or existing mine: <input type="checkbox"/> pit <input checked="" type="checkbox"/> quarry Material(s) to be mined: <input checked="" type="checkbox"/> sand and gravel <input checked="" type="checkbox"/> rock or stone <input type="checkbox"/> clay <input type="checkbox"/> metal <input type="checkbox"/> limestone <input type="checkbox"/> silica <input type="checkbox"/> other Deposit type: <input type="checkbox"/> glacial <input type="checkbox"/> river floodplain (alluvial) <input type="checkbox"/> river channel deposits <input type="checkbox"/> talus <input type="checkbox"/> bedrock <input type="checkbox"/> lode <input type="checkbox"/> unknown <input type="checkbox"/> other																																		
2. MAILING ADDRESS 3422 HIGHWAY 231 VALLEY, WA 99181					15. Total disturbed acreage and maximum depth of permit area: Total area disturbed will be <u>60.44</u> acres. Area to be disturbed in next 36 months will be <u>3</u> acres. Maximum vertical depth mined below pre-mining topographic will be <u>320</u> feet. Maximum depth of excavated mine will be <u>1880</u> feet relative to mean sea level.																																		
3. Telephone 509-937-4622 UBI No. 601-236-532 935-4515																																							
4. NAME OF MINE FIELD QUARRY 1 & 2																																							
5. Street address and milepost of surface mine SITE 2: MILEPOST 2 @ 3380 WEST JUMP OFF JOE ROAD, STEVENS COUNTY, VALLEY, WA 99181 SITE 1: MILEPOST 68.5 @ HIGHWAY 231, STEVENS COUNTY, VALLEY, WA 99181					16. Expected start date of mining: MAY 2010																																		
6. Distance (miles) 3.5		7. Direction from SOUTH EAST		8. Nearest community VALLEY						17. Estimated number of years: 30																													
9. COUNTY STEVENS No attachments will be accepted. Legal Description of permit area:																																							
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>1/4</th> <th>1/4</th> <th>Section</th> <th>Township</th> <th>Range</th> </tr> </thead> <tbody> <tr> <td>Govt Lot</td> <td>3 & 4</td> <td>2</td> <td>30N</td> <td>40E</td> </tr> <tr> <td>SW</td> <td>NW</td> <td>2</td> <td>30N</td> <td>40E</td> </tr> <tr> <td>SE</td> <td>NW</td> <td>2</td> <td>30N</td> <td>40E</td> </tr> <tr> <td>NE</td> <td>NE</td> <td>2</td> <td>30N</td> <td>40E</td> </tr> <tr> <td>SE</td> <td>NE</td> <td>2</td> <td>30N</td> <td>40E</td> </tr> </tbody> </table>					1/4	1/4	Section	Township	Range	Govt Lot	3 & 4	2	30N	40E	SW	NW	2	30N	40E	SE	NW	2	30N	40E	NE	NE	2	30N	40E	SE	NE	2	30N	40E	18. Total quantity to be mined over life of mine (estimated): 3,000,000 <input type="checkbox"/> tons or <input checked="" type="checkbox"/> cu yds				
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10. TOTAL ACREAGE OF PERMIT AREA APPLIED FOR: (Include all acreage to be permitted. See Form SM-6.) <u>60.44</u> acres					19. Estimated annual production: 50,000 <input type="checkbox"/> tons or <input checked="" type="checkbox"/> cu yds																																		
11. Do you or any person, partnership, or corporation associated with you now hold, or have you held, a surface mining operating or reclamation permit? If you answered yes to the above, please list: <input checked="" type="checkbox"/> yes <input type="checkbox"/> no					20. Subsequent land use: <input type="checkbox"/> industrial <input type="checkbox"/> commercial <input type="checkbox"/> residential <input type="checkbox"/> agricultural <input checked="" type="checkbox"/> forestry <input type="checkbox"/> wetlands and lakes <input type="checkbox"/> other Reclaimed elevation of floor of mine: <u>1880</u> feet relative to mean sea level Reclaimed elevation is shown on cross sections? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Subsequent land use is compatible with County or Municipal comprehensive plan? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no County or Municipality Approval for Surface Mining (Form SM-6) attached? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no SEPA Checklist required? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no If any answers are no, explain:																																		
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12. Are all of these mines now in compliance with RCW 78.44, WAC 332-18, and conditions of the permits? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no					21. Application fee for a new reclamation permit is herewith attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no																																		
13. Have you ever had a surface mine operating or reclamation permit revoked? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Have you ever had a reclamation security forfeited? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If you answered yes to either of the above, give permit number(s):																																							

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22. SEGMENTAL RECLAMATION		
Permit area has been divided into segments for mining and a mining schedule has been developed?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
If no, explain:		
Permit area has been divided into segments for reclamation and a reclamation schedule has been developed?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
If no, explain: 4' White PVC Pipe on Steel Post & 5/8" REBAR WITH 1 1/2" ALUMINUM CAP		
23. SITE PREPARATION		
23A. Permit and Disturbed Area Boundaries		
Boundary of the permit area has been marked on the ground with permanent boundary markers?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Explain boundary markers: 4' White PVC Pipe on Steel Post & 5/8" REBAR WITH 1 1/2" ALUMINUM CAP		
23B. Saving Topsoil, Subsoil, and Overburden for Reclamation		
Thickness of topsoil is <u>0-1</u> feet	Thickness of subsoil is <u>0-1</u> feet	Depth to bedrock is <u>0-2</u> feet
Total volume of topsoil is <u>10,000</u> cubic yards	Total volume of subsoil is <u>10,000</u> cubic yards	
Volume of stored topsoil/subsoil is <u>2500</u> cubic yards and will require <u>1-5</u> acres for storage.		
Storage areas are shown on maps and have been marked on the ground with permanent boundary markers?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Topsoil will be salvaged?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
If no, explain:		
Topsoil and overburden will be moved to reclaim an adjacent depleted segment?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
If no, explain:		
Before materials are moved, vegetation will be cleared and drainage planned for soil storage areas?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
If no, explain:		
Soil storage areas will be stabilized with vegetation to prevent erosion if materials will be stored for more than one season?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
If no, explain:		
23C. Setbacks and Screens		
Maximum depth of the mine will be <u>320</u> feet from <u>2640</u> feet (<i>highest</i>) to <u>1880</u> feet (<i>lowest</i>) elevation relative to mean sea level.		
The setback for this site will be <u>30</u> feet wide.		
Is a permanent, undisturbed buffer planned for this site?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
If no, explain:		
Setbacks are shown on maps and have been marked on the ground with permanent boundary markers?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
If no, explain:		
Does this site have a backfilling plan that addresses the protection of adjacent property and how the final, stable slopes are to be achieved?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
If no, explain: BACK FILLING WILL NOT BE NECESSARY		
23D. Buffers to Protect Streams and Flood Plains		
A stream buffer of at least 200 feet has been marked on the ground with permanent boundary markers?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<i>If yes, see "Additional Requirements for Mines in Flood Plains" in "Instructions for SM-8A".</i>		
A buffer of at least 200 feet from the 100-year flood plain has been marked on the ground with permanent boundary markers?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
If no, explain: NO WATER, ABOVE FLOOD PLAIN		
Copy of Shoreline Permit from local government or the Department of Ecology is attached?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Hydraulic Project Approval from the Department of Fish and Wildlife is attached?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no

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23E. Conservation Buffers	
Conservation buffers will be established for the following purpose(s): <i>(Check all that apply)</i> <input type="checkbox"/> unstable slopes <input type="checkbox"/> wildlife habitat <input type="checkbox"/> water quality <input type="checkbox"/> other Describe the nature and configuration of the conservation buffer(s):	
Conservation setbacks are shown on maps and have been marked on the ground with permanent boundary markers?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
23F. Ground Water	
High water table depth is <u>1680</u> feet <input checked="" type="checkbox"/> relative to mean sea level, <input type="checkbox"/> below original surface, or <input type="checkbox"/> unknown. Low water table depth is _____ feet <input type="checkbox"/> relative to mean sea level, <input type="checkbox"/> below original surface, or <input checked="" type="checkbox"/> unknown. Annual fluctuation of water table is from _____ feet on _____ to _____ feet on <u>unknown</u> . Direction of ground water flow: <u>WEST</u>	
Are well logs attached?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Is the aquifer perched?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
The shallowest aquifer is <input type="checkbox"/> confined <input checked="" type="checkbox"/> unconfined?	
The site will be mined: <input type="checkbox"/> wet <input checked="" type="checkbox"/> dry <input type="checkbox"/> both Describe mining method: EXCAVATION OF QUARRY	
The site is in a: <input type="checkbox"/> critical aquifer recharge area <input type="checkbox"/> sole source aquifer <input type="checkbox"/> public water supply watershed <input type="checkbox"/> wellhead protection area <input type="checkbox"/> special protection area <input type="checkbox"/> designated aquifer protection area	
Ground water study attached?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<i>If yes, see "Additional Requirements for Mines in Hydrologically Sensitive Areas" in "Instructions for SM-8A". If no, explain: WATER TABLE IS WELL BELOW EXCAVATION LIMITS AT VALLEY FLOOR</i>	
23G. Archeology	
Are archeological/cultural resource sites present?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If yes, describe how you will protect these resources:	
24. MINING PRACTICES TO FACILITATE RECLAMATION	
24A. Soil Replacement	
Topsoil will be saved?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
If no, explain:	
Up to 4 feet of topsoil and (or) subsoil will be restored?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If "yes" give details. If "no", explain: ORIGINAL SOIL AMOUNTS ARE 0-1 FEET - SEE NARRATIVE	
Topsoil will be restored and seedbeds prepared as necessary to promote effective revegetation and to stabilize slopes and mine floor?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
If "yes" give details. If "no", explain: SUB-SOIL & TOP-SOIL WILL BE REPLACED, GRASS SEEDED AND PLANTED WITH PONDEROSA PINE SEEDLINGS.	
Subsoil will be replaced to an approximate depth of <u>0-1</u> feet on the pit floor and a depth of <u>0-1</u> feet on slopes. Topsoil will be replaced to an approximate depth of <u>0-1</u> feet on the pit floor and a depth of <u>0-1</u> feet on slopes.	
Topsoil will be distributed evenly over the site?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
If no, explain:	
If topsoil is in short supply, it will be strategically placed in depressions and low areas in adequate thickness to conserve moisture and promote revegetation?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
If no, explain:	

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Topsoil will be moved when conditions are not overly wet or dry? If no, explain:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Topsoil will be imported? If yes, describe source. If no, explain: IF NECESSARY TOP SOIL WILL BE IMPORTED	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Synthetic topsoil made from compost, biosolids, or other amendments will be used and (or) made on site to supplement existing topsoil?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Materials such as till, loess, and (or) silt are available on site that could be used to supplement topsoil for reclamation. If yes, explain:	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Silt from settling ponds or a filter press will be used for reclamation?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Settling pond clay slurries will be pumped or hauled to other segments for reclamation? If yes, explain:	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Topsoil will be replaced with equipment that will minimize compaction, or it will be plowed, disked, or ripped following placement? If no, explain:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Topsoil will be immediately stabilized with grasses and legumes to prevent loss by erosion, slumping, or crusting? If no, explain:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Topsoil stockpile areas are shown on maps and will be marked on the ground with permanent boundary markers to protect from loss? If no, explain:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Segmental topsoil removal and replacement is shown on maps? If no, explain:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Topsoil salvage and replacement plan included? If no, explain:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
24B. Removal of Vegetation	
Vegetation will be removed sequentially from areas to be mined to prevent unnecessary erosion? If no, explain:	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Small trees and other transplantable vegetation will be salvaged for use in revegetating other segments? If yes, give details. If no, explain: VEGETATION NOT SUITABLE FOR TRANSPLANTING	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Wood and other organic debris will be: <input type="checkbox"/> recycled <input type="checkbox"/> removed from site <input type="checkbox"/> chipped <input type="checkbox"/> burned <input type="checkbox"/> buried <input checked="" type="checkbox"/> used to synthesize topsoil or mulch <input type="checkbox"/> other (<i>explain</i>)	
Solid waste disposal, burning, and land use permits are attached?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Some coarse wood (logs, stumps) and other large debris will be salvaged for fish and wildlife habitats? If yes, give details. If no, explain: SOME WOOD DEBRIS WILL BE SET ASIDE FOR RECLAMATION	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
24C. Erosion control for Reclamation	
Pit floor will slope at gentle angles toward highwall, sediment retention pond, or proper drainage? If yes, give details. If no, explain: SITE 1: PIT WILL BE SLOPED TO CONTAIN WATER ON SITE FOR DRAINAGE SITE 2: SLOPES TOWARD QUARRY HIGHWALL	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Revegetation, sheeting, and (or) matting will be used to protect areas susceptible to erosion? If yes, give details. If no, explain: GRASS SEEDING WILL BE DONE ON ALL DISTURBED SITES	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

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<p>Water control systems used for erosion control during segmental reclamation will:</p> <p>Divert clean water around pit? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p> <p>Trap sediment-laden runoff before it enters a stream? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p> <p>Result in essentially natural conditions of volume, velocity, and turbidity? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p> <p>Handle a 25-year, 24-hour peak event? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p> <p style="padding-left: 40px;">(Have you attached calculation?) <input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p> <p>Be removed or reclaimed? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p> <p>If any answers are no, explain: SAME AS ORIGINAL PERMIT</p>	
<p>Will any water control systems be removed upon final reclamation?</p> <p>If yes, explain:</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
<p>Water control measure will be established to prevent erosion of setbacks and neighboring properties?</p> <p>If yes, give details. If no, explain: WATER CONTAINED ON SITE</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
<p>Storm-water conveyance ditches and channels will be lined with vegetation or riprap?</p> <p>If yes, give details. If no, explain: NOT APPLICABLE</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
<p>Natural and other drainage channels will be kept free of equipment, wastes, stockpiles, and overburden?</p> <p>If no, explain: NO DRAINAGE CHANNELS ON SITE</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
25. RECLAMATION TOPOGRAPHY	
25A. Final Slopes	
<p>Final slopes will be created using the cut-and-fill method?</p> <p>Explain procedure to be used: AREA IS THE RIDGE TOP AND WILL BE MINED DOWN CREATING LARGE FLAT RIDGE TOP.</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
<p>Slopes will be created by mining to the final slope using the cut method?</p> <p>Explain procedure to be used: MINING TO GRADE</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>
<p>Slopes will vary in steepness?</p> <p>If no, explain:</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>
<p>Slopes will have a sinuous appearance in both profile and plan view?</p> <p>If no, explain:</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>
<p>Large rectilinear (that is, right angle, or straight, planar) areas will be eliminated?</p> <p>If no, explain:</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>
<p>Where reasonable, tracks of the final equipment pass will be preserved and oriented to trap moisture, soil, and seeds, and to inhibit erosion?</p> <p>If no, explain:</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>
25B. Slope Requirements for Pits and Overburden/Waste Rock Dumps (non-saleable products)	
<i>If the mine is a quarry or in hard rock, skip to Quarry section (25C).</i>	
<p>Slopes will vary between 2 and 3 feet horizontal to 1 foot vertical or flatter, except in limited areas where steeper slopes are necessary to create sinuous topography and control drainage?</p> <p>If no, explain:</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>
<p>For pits, slopes will not exceed 2 feet horizontal to 1 foot vertical except as necessary to blend with adjacent natural slopes?</p> <p>Give details: THE RESULTING RIDGE TOP WILL BE FLATTER THAN THE PRE MINING SLOPE WITH A FINAL SLOPE WITH NO AREA STEEPER THAN 2 TO 1 SLOPE.</p>	<p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>
<p>Slope stability analysis required?</p> <p><i>If yes, see "Additional Requirements for Mines with Steep or Potentially Unstable Slopes" in "Instructions for SM-8A".</i></p> <p>Slope stability analysis provided by _____</p>	<p><input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>

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25C. Slope Requirements for Quarries and Hardrock Metal Mines	
<i>If mine is a pit in unconsolidated materials covered by Section 25B, go to Section 25D</i>	
Check the appropriate box(es)	
<input checked="" type="checkbox"/> Slopes will not exceed 2 feet horizontal to 1 foot vertical.	
<input type="checkbox"/> Slopes steeper than 1 foot horizontal to 1 foot vertical are an acceptable subsequent land use as confirmed on Form SM-6.	
<input type="checkbox"/> Hazardous slopes or cliffs are indigenous to the immediate area and already present a potential threat to human life. Photo and maps attached to document presence of cliffs.	
<input type="checkbox"/> Geologic or topographic characteristics of the site preclude slopes being reclaimed at a flatter angle and are an acceptable subsequent land use as confirmed on Form SM-6.	
Slope stability analysis required?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<i>If yes, see "Additional Requirements for Mines with Steep or Potentially Unstable Slopes" in "Instructions for SM-8A".</i>	
Slope stability analysis provided by	
Measures will be taken to limit access to the top and bottom of hazardous slopes?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Describe measures, or if no, explain: HAZARDOUS SLOPES DO NOT EXIST ON SITE AND THERE IS NO PUBLIC ACCESS TO THE SITES. ROADS ARE GATED AND POSTED WITH WARNING SIGNS.	
Selective blasting will be used to remove benches and walls and to create chutes, buttresses, spurs, scree slopes, and rough cliff faces that appear natural?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Describe procedures, or if no, explain:	
Reclamation blasting will be used to reduce the entire highwall to a scree or rubble slope less than 2 feet horizontal to 1 foot vertical?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Blasting plan is attached?	
If no, explain: WE WILL BLAST WHEN NECESSARY IF ROCK GETS TO HARD TO DIG WITH EXCAVATOR. MINING WILL OCCUR ON RECLAMATION SLOPE. BLASTING ONLY WHEN NEEDED AND WILL BE MINIMAL.	
Access to benches will be maintained for reclamation blasting?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If no, explain: NO BENCHES	
Small portions of benches will be left to provide habitat for raptors and other cliff-dwelling birds?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
25D. Backfilling	
Slopes will require backfilling?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Depth of backfilling is _____ feet.	
Slope stability compaction analysis required?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Compaction analysis provided by	
Backfilling plan and (or) permits are attached?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If no, explain:	
Backfilling will be done with overburden material after topsoil has been separated?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If no, describe composition and source of backfill material:	
Explain method of placement of fill: N/A	
Locations of stockpiles are shown on maps and will be marked on the ground with permanent boundary markers?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Will backfill be imported?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If yes, give volumes needed to meet reclamation plan: N/A	
Areas to be backfilled are shown on maps?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If no, explain: N/A	
All grading/backfilling will be done with clean, inert, non-organic solids?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If yes, give details. If no, explain: N/A	

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Backfilled slopes will be compacted? If yes, give details. If no, explain: N/A	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no								
Will you be backfilling into water? If yes, is slope stability analysis attached? If yes, describe method: N/A	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input checked="" type="checkbox"/> no								
25E. Mine Floors									
Flat areas will be formed into gently rolling mounds? If yes, give details. If no, explain: AREA WILL BE RECLAIMED TO A FLAT AREA WITH SOME MOUNDS	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no								
Mine floor will be gently graded into sinuous drainage channels to preclude sheetwash erosion during intense precipitation? If yes, give details. If no, explain: AREA WILL HAVE A FLAT GRADE, WHICH WILL PRELUDE EROSION PROBLEMS. SITE WILL BE RECLAIMED. All WATER REMAINS ON SITE	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no								
Mine floor and other compacted areas will be bulldozed, plowed, ripped, or blasted to foster revegetation? If yes, give details. If no, explain: THE SITE WILL BE BLASTED OR RIPPED BEFORE RECLAIMING WITH THE TOP SOIL & REPLANTING TO MAKE FLAT FLOOR UNEVEN, MORE NATURAL LOOKING.	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no								
25F. Lakes, Ponds, and Wetlands									
Is water currently present in the area or will the mining penetrate the water table? <i>If no, go to Section 25G.</i>	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no								
Reclaimed areas below the permanent low water table in soil, sand, gravel, and other unconsolidated material will have a slope no steeper than 1.5 feet horizontal to 1 foot vertical? If yes, give details. If no, explain:	<input type="checkbox"/> yes <input type="checkbox"/> no								
If not already present, soils, silts, and clay-bearing material will be placed below water level to enhance revegetation? If yes, give details. If no, explain:	<input type="checkbox"/> yes <input type="checkbox"/> no								
Some parts of pond and lake banks will be shaped so that a person can escape from the water?	<input type="checkbox"/> yes <input type="checkbox"/> no								
Armored spillways or other measures to prevent undesirable overflow or seepage will be provided to stabilize bodies of water and adjacent slopes? If yes, give details. If no, explain:	<input type="checkbox"/> yes <input type="checkbox"/> no								
Wildlife habitat will be developed, incorporating such measures as: Sinuous and irregular shorelines? Varied water depths? Shallow areas less than 18 inches deep? Islands and peninsulas? Give details:	<table style="width: 100%;"> <tr><td><input type="checkbox"/> yes</td><td><input type="checkbox"/> no</td></tr> <tr><td><input type="checkbox"/> yes</td><td><input type="checkbox"/> no</td></tr> <tr><td><input type="checkbox"/> yes</td><td><input type="checkbox"/> no</td></tr> <tr><td><input type="checkbox"/> yes</td><td><input type="checkbox"/> no</td></tr> </table>	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
<input type="checkbox"/> yes	<input type="checkbox"/> no								
<input type="checkbox"/> yes	<input type="checkbox"/> no								
<input type="checkbox"/> yes	<input type="checkbox"/> no								
<input type="checkbox"/> yes	<input type="checkbox"/> no								
Ponds or basins will: Be located in stable areas? Have sufficient volume for expected runoff? Have an emergency overflow spillway? Spillways and outfalls will be protected (for example, rock armor) to prevent failure and erosion? If any answers are no, explain:	<table style="width: 100%;"> <tr><td><input type="checkbox"/> yes</td><td><input type="checkbox"/> no</td></tr> <tr><td><input type="checkbox"/> yes</td><td><input type="checkbox"/> no</td></tr> <tr><td><input type="checkbox"/> yes</td><td><input type="checkbox"/> no</td></tr> <tr><td><input type="checkbox"/> yes</td><td><input type="checkbox"/> no</td></tr> </table>	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> yes	<input type="checkbox"/> no
<input type="checkbox"/> yes	<input type="checkbox"/> no								
<input type="checkbox"/> yes	<input type="checkbox"/> no								
<input type="checkbox"/> yes	<input type="checkbox"/> no								
<input type="checkbox"/> yes	<input type="checkbox"/> no								
Proper measures will be taken to prevent seepage from water impoundments that could cause flooding outside the permitted area or adversely affect the stability of impoundment dams or adjacent slopes? If yes, give details. If no, explain:	<input type="checkbox"/> yes <input type="checkbox"/> no								

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Written approval from other agencies with jurisdiction to regulate impoundment of water is attached? If no, explain:	<input type="checkbox"/> yes <input type="checkbox"/> no
25G. FINAL DRAINAGE CONFIGURATION	
Drainage will be capable of carrying the peak flow of the 25-year, 24-hour precipitation event? (Data are available at DNR Region offices)	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
If yes, are calculations attached?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
If yes, give details. If no, explain: FINAL RECLAIMED SITE WILL HAVE LOWER GRADIENT SLOPE THAN PRE-MINING.	
Drainages will be constructed on each reclaimed segment to control surface water, erosion, and siltation?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Clean runoff is directed to a safe outlet?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If either yes, give details. If no, explain: NOT NECESSARY ON THIS SITE WATER WILL REMAIN ON SITE	
Are these shown on maps?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
The grade of ditches and channels will be constructed to limit erosion and siltation?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If yes, give details. If no, explain: NO DITCHES OR CHANNELS NEEDED.	
Natural-appearing drainage channels will be established upon reclamation?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
If yes, give details. If no, explain: NO CHANNELS, WATER WILL REMAIN ON SITE	
26. SITE CLEANUP AND PREPARATION FOR REVEGETATION	
26A. Dealing with Hazardous Materials	
Hazardous materials are present at the mine site?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<i>If no, go to Section 26B</i>	
The final ground surface drains away from any hazardous natural materials?	<input type="checkbox"/> yes <input type="checkbox"/> no
If yes, give details. If no, explain:	
Plan for handling hazardous mineral wastes indigenous to the site is attached?	<input type="checkbox"/> yes <input type="checkbox"/> no
If no, written approval from all appropriate solid waste regulatory agencies attached?	<input type="checkbox"/> yes <input type="checkbox"/> no
26B. Removal of Debris	
All debris (garbage, 'bone piles', treated wood, old mining equipment, etc.) will be removed from the mine site?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
All sheds, scale houses, and other structures will be removed from the site?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
If either answer is yes, give details. If no, explain: ALL EQUIPMENT & DEBRIS WILL BE REMOVED.	
27. REVEGETATION	
The mine site is in:	<input checked="" type="checkbox"/> eastern Washington The mine site is: <input type="checkbox"/> wet <input checked="" type="checkbox"/> dry? <input type="checkbox"/> western Washington
The average precipitation is <u>17</u> " per year.	
Revegetation will start during the first proper growing season (fall for grasses and legumes, fall or late winter for trees and shrubs) following restoration of slopes?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
If yes, give details. If no, explain: GRASS SEEDING WILL BE DONE IN THE FALL AND TREE PLANTING IN THE SPRING.	
Test plots will be used to determine optimum vegetation plans?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
The site will not be revegetated because:	
<input type="checkbox"/> It is a rural area with a rainfall exceeding 30 inches annually and erosion will not be a problem (requires approval of DNR). <input type="checkbox"/> Demonstration plots and areas will be used to show that active revegetation is not necessary. <input type="checkbox"/> Revegetation is inappropriate for the approved subsequent use of this surface mine.	
Explain:	
Documentation is attached?	<input type="checkbox"/> yes <input type="checkbox"/> no

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27A. Recommended Pioneer Species

In the Sections below, check the species that will be planted at your mine site:

** indicates nitrogen-fixing species*

Western Washington Dry Areas

- | | | | |
|--|--|--|---|
| <input type="checkbox"/> alfalfa* | <input type="checkbox"/> lupine* | <input type="checkbox"/> clover* | <input type="checkbox"/> orchard grass |
| <input type="checkbox"/> cereal rye | <input type="checkbox"/> perennial rye | <input type="checkbox"/> colonial bent grass | <input type="checkbox"/> ponderosa pine |
| <input type="checkbox"/> creeping red fescue | <input type="checkbox"/> red alder* | <input type="checkbox"/> Douglas fir | <input type="checkbox"/> shore pine |
| <input type="checkbox"/> ground cover | <input type="checkbox"/> shrubs | <input type="checkbox"/> other | |

Western Washington Wet Areas

- | | | | |
|--|--|--|---------------------------------|
| <input type="checkbox"/> birdsfoot trefoil | <input type="checkbox"/> sedges | <input type="checkbox"/> cedar | <input type="checkbox"/> tubers |
| <input type="checkbox"/> cottonwood | <input type="checkbox"/> wetland grasses | <input type="checkbox"/> creeping red fescue | <input type="checkbox"/> willow |
| <input type="checkbox"/> red alder* | <input type="checkbox"/> other | | |

Eastern Washington Dry Areas

- | | | | |
|---|--|--|---|
| <input type="checkbox"/> alder* | <input checked="" type="checkbox"/> grasses | <input type="checkbox"/> alfalfa* | <input type="checkbox"/> juniper |
| <input type="checkbox"/> black locust | <input type="checkbox"/> lodgepole pine | <input checked="" type="checkbox"/> clover | <input type="checkbox"/> lupine* |
| <input type="checkbox"/> deciduous trees | <input checked="" type="checkbox"/> ponderosa pine | <input type="checkbox"/> shrubs | <input type="checkbox"/> deep-rooted ground cover |
| <input type="checkbox"/> diverse evergreens | <input type="checkbox"/> other | | |

Eastern Washington Wet Areas

- | | | | |
|---------------------------------------|-------------------------------------|---------------------------------|---------------------------------|
| <input type="checkbox"/> alder* | <input type="checkbox"/> cottonwood | <input type="checkbox"/> poplar | <input type="checkbox"/> sedges |
| <input type="checkbox"/> serviceberry | <input type="checkbox"/> tubers | <input type="checkbox"/> willow | |
| <input type="checkbox"/> other | | | |

Give planting details (stems/acres of trees and shrubs, see Forest Practices manual; lbs/acre of grass, legume, or forb mixture):

450 TREES PER ACRE - PONDEROSA PINE WITH AT LEAST 150 SURVIVING SEEDLINGS PER ACRE

GRASS SEED - GRASS/CLOVER MIX WILL BE APPLIES AT 20 POUNDS PER ACRE

SEED MIX WILL CONTAIN CERTIFIED WEED FREE MIX OF 10% Ladak ALFALFA, 15% SMOOTH BROME, 15% SMALL BURNET, 15% BIG BLUEGRASS, 15% HARD FESCE, 15% ALYCE CLOVER, 15% WHITE DUTCH CLOVER

Describe weed control plan:

CERTIFIED WEED FREE SEED WILL BE APPLIED AND ALL APPLICABLE STATE LAWS WILL BE FOLLOWED

27B. Planting Techniques

Revegetation at this site will require:

- | | | |
|--|---|--|
| Ripping and tilling? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Blasting to create permeability? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Mulching? | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |
| Irrigation? | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |
| Fertilization? | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |
| Importation of clay- or humus-bearing soils? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Other soil conditioners or amendments? | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no |

Give details: **WILL PLANT 450 PONDEROSA PINE TO THE ACRE WITH AT LEAST 150 SEEDLING SERVIVAL RATE. WILL CHECK SITE TO SEE SURVIVAL RATE IN 1 YEAR.**

Trees and shrubs will be planted in topsoil or in subsoil amended with generous amounts of organic matter? ☐ yes ☒ no

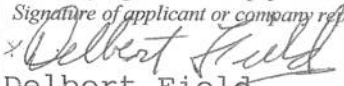


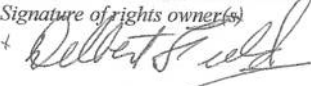
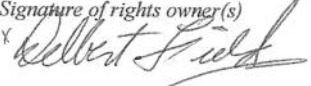
If yes, give details. If no, explain: **ORGANIC MATTER WILL NOT BE NEEDED FOR PONDEROSA PINE SEEDLINGS**

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Mulch will be piled around the base of trees and shrubs?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
High quality stock will be used?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Trees and shrubs will be planted while they are dormant?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Stock will be properly handled, kept cool and moist, and planted as soon as possible?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Seeds will be covered with topsoil or mulch no deeper than one-half inch?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
If any answers are no, explain: THE SITE WILL BE PLANTED WITH PONDEROSA SEEDLINGS WHICH ARE NATIVE TO THIS SITE AND WILL REQUIRE NO MULCH AROUND BASE. GRASS SEED WILL BE CERTIFIED WEED FREE.		
28. FINAL CHECKLIST		
All required maps are attached? (See "Instructions for SM-8A" for detailed requirements.)	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
All required cross sections are attached? (See "Instructions for SM-8A" for detailed requirements.)	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Geologic map attached (if required)? (See "Instructions for SM-8A" for detailed requirements.)	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
All documents submitted have the date, the name and address of the permit holder, and the application number on every page of the material?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
The plan contains predominantly relevant information?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Have you completed the SM-6 and has it been signed by the local jurisdiction?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Have you provided the SEPA checklist?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Have you provided a copy of the SEPA determination (DNS, MDNS, or DS)?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Have you attached photographs?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Are additional supplemental studies included?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
If yes, check the appropriate box(es) below:		
<input type="checkbox"/> Archeological	<input type="checkbox"/> Geohydrologic	<input type="checkbox"/> Backfill
<input type="checkbox"/> Topsoil	<input type="checkbox"/> Flood plain	<input type="checkbox"/> Conservational
<input type="checkbox"/> Other		<input type="checkbox"/> Slope stability
		<input type="checkbox"/> Vegetation
Other permits required? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		
If yes, check the appropriate box(es) below:		
<input type="checkbox"/> Shoreline Permit	<input type="checkbox"/> Water Discharge Permit	<input type="checkbox"/> Solid Waste Permit
<input type="checkbox"/> Air Quality Permit	<input checked="" type="checkbox"/> NPDS or General Discharge Permit	<input type="checkbox"/> Hydraulic Project Approval
<input type="checkbox"/> Special or Conditional Use Permit	<input type="checkbox"/> Other	

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When signed by the applicant and approved by the Department of Natural Resources, this document and the associated maps, cross sections, reclamation narrative, and other attachments will be the approved reclamation plan for this permit that the permit holder must follow. Significant variations from the approved reclamation plan may require that a new plan be submitted to the Department for approval.

The applicant shall be considered as the permit holder for this surface mine and shall be responsible for compliance with Chapter 78.44 RCW, Chapter 332-18 WAC, the approved reclamation plan and attachments, and the conditions of the permit if issued by the Department of Natural Resources.			
I hereby agree to comply with this plan. <i>Signature of applicant or company representative</i>  Delbert Field	Name and Title of Company Representative (Please print) Delbert Field Owner	Date signed 4/26/2010	
SURFACE OWNERSHIP Give names, addresses, and signatures of all individuals with possessory interest in land. <i>(Attach signed copies of this page if more than one.)</i> I verify that the applicant has my permission to mine from my land. <i>Signature of landowner(s)</i>  <div style="float: right; text-align: right;"> <i>Date signed</i> 4/26/2010 </div> I hereby verify that I have seen and approved this plan. <i>Signature of landowner(s)</i>  <div style="float: right; text-align: right;"> <i>Date signed</i> 4/26/2010 </div>	OWNERSHIP OF RIGHTS TO REMOVE MINERALS BY SURFACE MINING Give names, addresses, and signatures of all individuals with rights. <i>(Attach signed copies of this page if more than one.)</i> I verify that the applicant has my permission to mine this land. <i>Signature of rights owner(s)</i>  <div style="float: right; text-align: right;"> <i>Date signed</i> 04/26/2010 </div> I hereby verify that I have seen and approved this plan. <i>Signature of rights owner(s)</i>  <div style="float: right; text-align: right;"> <i>Date signed</i> 04/26/2010 </div>		
FOR DEPARTMENTAL USE ONLY			
Date accepted	Accepted by:	Title:	Reclamation Permit No.
Comments by Department:			

